

Figure 1. Modified phage RNAPs fail to terminate at the PTH signal.

G:C	Σ	*	÷ 5,000
	WT	7	
N:N	Σ	9	
	WT	· ·	
C;C	¥	4	
	WT	e.	
N:N	Σ	2	
	FW.	-	
3'-termini	Enzyme type	Lane	
	N:N G:C N:N	N.N. G.C. N.N. G.C.	6 WT M WT M WT M WT T 2 3 4 5 6 7

7 RNAP allows increased production of transcripts on templates with G:C-rich ends.

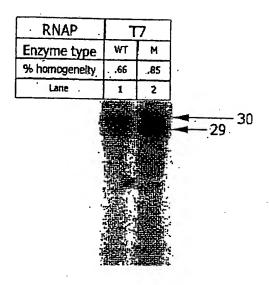


Figure 3. RNAs produced by modified T7 RNAP have more homogeneous 3'- ends.

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TW MT	5' 3' 5' 3'	5 6 7 8	aberrant (aberrant	products		Expected run-off				
		S		Expected run-off 111						
¥	5, 3,	3 4								
Σ	5' 3'	1 2				•	.:.			
Enzyme type	Protruding Termini	Lane				• •	-		K 2	
	End	GGGCCC -3'	CCCGGG -2.	GGGCCC -3'	CCCGGG5'	GGTACC -3'	CCATGG -5'	GGTACC -3'	CCATGG -5'	
	Enzyme	Bsp1201	Bsp1201		Apaľ		Acc65I		זוולט	
	Lane	1,3		7	- 2, 1	5,7		0 9	0,0	

Figure 4. Use of modified T7 RNAP results in decreased synthesis of aberrant products on templates with protruding 3'- ends.

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